

**Amendments to the Specification**

Please amend paragraph [0005] as shown below:

Non-contact techniques for measuring relative displacement also exist. Optical devices using such techniques employ a ~~an~~ CCD sensor which images a fixed, patterned surface. For example, the movement of an optical mouse is detected by imaging the movement of elements of a fixed surface pattern or texture to provide a translation vector and thus x and y cursor displacements.

Please amend paragraph [0026] as shown below:

The glyph bed is preferably invisible to the human eye or alternatively adapted to ~~ne~~ not substantially interfere with the appearance of the surface when viewed by the human eye.

Please amend paragraph [0052] as shown below:

FIG. 1: illustrates details a series of strokes applied to a surface with embedded position encoding information according to an embodiment of the invention;

Please amend paragraph [0053] as shown below:

FIG. 2: illustrates an example of a stroke series applied to a mixed content surface according to an embodiment of the invention;

Please amend paragraph [0054] as shown below:

FIG. 3: illustrates normalisation of a stroke to an absolute location on an embedded position encoded surface according to an embodiment of the invention; and

Please amend paragraph [0055] as shown below:

FIG. 4: illustrates a simplified schematic of a pen forming a stroke and the capturing stroke data according to an embodiment of the invention.

Please amend paragraph [0057] as shown below:

The optical solution represents a ~~the most~~ preferred embodiment as this arrangement does not require mechanical transducer components and a significant degree of compactness and lightness is advantageous ~~required~~ in a pen form-factor.

Please amend paragraph [0071] as shown below:

To compensate for these effects, the embodiment of the invention described herein functions as follows. The preferred embodiment discussed here is focussed on the use of non-contact optical imaging systems.

Please amend paragraph [0086] as shown below:

There are a number of applications in which embodiments of the invention may find use. Foremost is in form-filling applications where a composite page would include a glyph bed of absolute location coded material, large amounts of overprinting including checkboxes, text boxes and guide areas for the insertion of handwritten text. Other applications include position-encoded media such as magazines, newspaper and paper-based web interface. The risk of glyph obscuration is particularly high in the case of magazines and newspapers which normally contain

large areas of printed material with overprinted text. Essentially these types of media have relatively little clear area where a pen could image the absolute location glyph background.